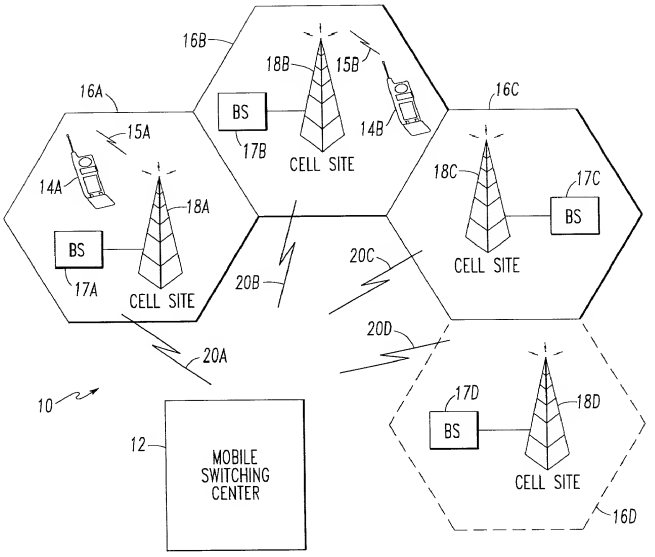

FIG. 1

09754288 . 042901

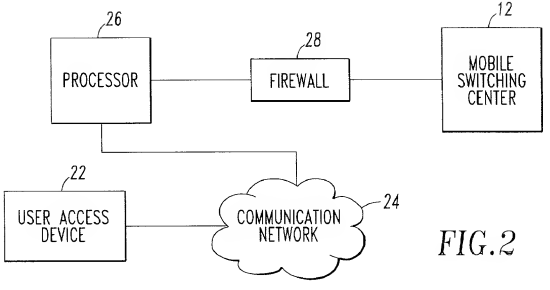

FIG.2

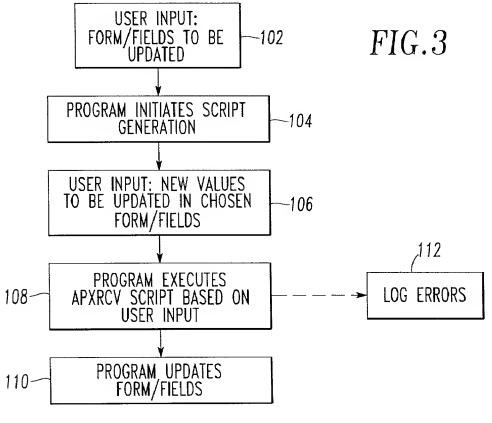

FIG.3

09751285-040401

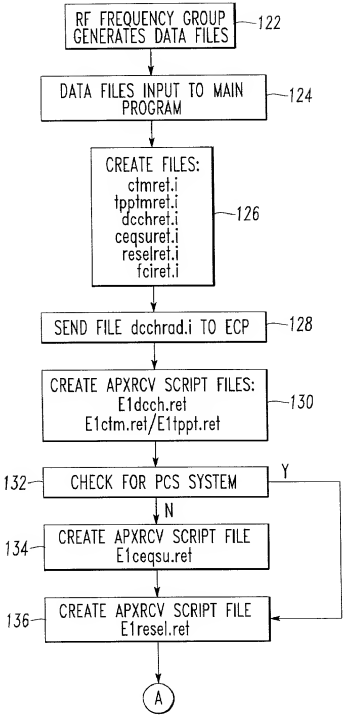
RF FREQUENCY GROUP GENERATES DATA FILES
122
DATA FILES INPUT TO MAIN PROGRAM
124
CREATE FILES:
ctmret.i
tpptmret.i
dcchret.i
ceqsuret.i
reselret.i
fciret.i
126
SEND FILE dcchrad.i TO ECP
128
CREATE APXRCV SCRIPT FILES:
E1dcch.ret
E1ctm.ret/E1tppt.ret
130
132
CHECK FOR PCS SYSTEM
Y
N
134
CREATE APXRCV SCRIPT FILE
E1ceqsu.ret
136
CREATE APXRCV SCRIPT FILE
E1resel.ret
A

FIG.4A

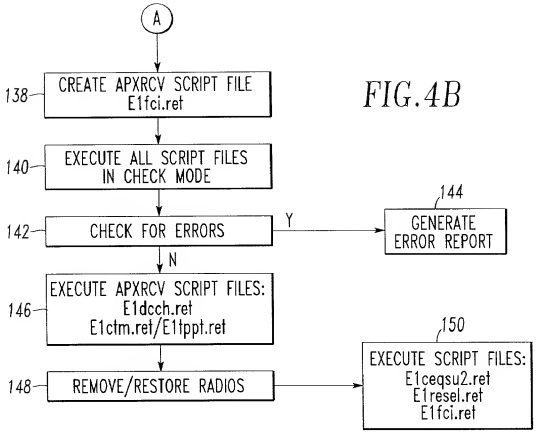

FIG.4B

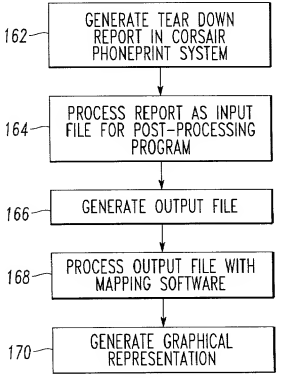

FIG.5

05751285.04901

>pg pp9912.txt

Date	Time(2)	Site_ID	MIN(1)	Dialed_Digits	Tear-Down_Reason	
12/25/99	19:26:09		20	2012075854	12014981322	MFG
12/23/99	14:56:20		219	2012075854	5617767114	MFG
12/26/99	21:40:32		167	2012130072	19547814445	MFG
12/23/99	19:06:49		82	2012134416	9544289147	MFG
12/23/99	19:06:23		82	2012134416	9544289147	MFG
12/25/99	17:23:55		82	2012134416	9544285083	MFG
12/25/99	15:06:20		82	2012134416	2015680907	MFG
12/25/99	13:04:16		82	2012134416	2015680907	MFG
12/25/99	13:04:05		82	2012134416	2015680907	MFG
12/25/99	13:03:53		82	2012134416	2015680907	MFG
12/25/99	13:03:31		82	2012134416	2015680907	MFG
12/25/99	13:01:49		82	2012134416	2015680907	MFG
12/25/99	12:53:38		82	2012134416	2015680907	MFG
12/25/99	12:52:32		82	2012134416	2015680907	MFG
12/25/99	12:52:03		82	2012134416	2015680907	MFG
12/25/99	12:50:48		82	2012134416	2015680907	MFG
12/25/99	12:48:15		82	2012134416	2015680907	MFG
12/25/99	12:47:16		82	2012134416	5680907 MFG	
12/24/99	11:58:50		82	2012134416	8003328463	MFG
12/24/99	11:58:08		82	2012134416	8003328463	MFG
12/24/99	10:03:16		82	2012134416	9544289147	MFG
12/22/99	14:58:09		80	2012300764	19546467166	MFG
12/29/99	10:54:28		177	2012499657	19086881800	MFG
12/29/99	10:51:49		177	2012499657	9412503698	MFG
12/29/99	10:25:04		145	2012499657	12012400657	MFG
12/29/99	10:24:42		145	2012499657	12012400657	MFG
12/27/99	21:26:01		49	2012476225	15616551115	MFG
12/24/99	19:22:48		219	2012476225	15615551212	MFG
12/24/99	19:22:26		219	2012476225	15615551212	MFG
12/24/99	19:22:06		219	2012476225	15615551212	MFG
12/24/99	19:13:38		219	2012476225	5617950022	MFG
12/27/99	12:01:06		20	2012476225	15614996976	MFG
12/23/99	16:23:47		12	2012640686	3105152822	MFG
12/23/99	16:17:19		12	2012640686	3105152822	MFG
12/23/99	16:17:03		12	2012640686	3105152822	MFG

FIG.6

09751286.041901

```
>pg map1299
ECP, CellNo,Longitude, Latitude,Count
4,1,-80.1675,26.155278.148
3,5,-80.361111,25.699444,209
1,6,-80.171667,26.36,675
1,7,-80.144167,26.562778,173
1,8,-80.109722,26.760556,76
3,9,-80.317222,25.679444,311
3,10,-80.266667,25.747222,115
4,15,-80.123056,25.854167,510
4,16,-80.198611,26.248889,401
1,18,-80.088889,26.45,380
1,20,-80.058611,26.651944,216
4,22,-80.210833,25.848611,138
4,23,-80.128889,26.085833,844
4,25,-80.288889,25.845556,55
1,26,-80.201111,26.630833,251
4,27,-80.204722,25.93,590
3,38,-80.360833,25.596667,255
3,39,-80.333889,25.649444,584
4,30,-80.415,26.086389,207
4,31,-80.175833,26.121944,128
1,37,-80.681389,26.686667,213
4,40,-80.364444,25.828333,156
4,42,-80.286944,25.920556,147
4,43,-80.168056,26.024722,333
3,46,-80.129167,25.793611,2694
3,47,-80.238611,25.811389,121
1,49,-80.051667,26.711944,381
4,50,-80.160556,25.908611,187
4,52,-80.26,26.121667,456
4,53,-80.105556,26.136389,501
3,54,-80.383333,25.653056,81
4,55,-80.249444,26.268333,314
3,56,-80.294722,25.703889,184
3,57,-80.315,25.808333.21
3,58,-80.265278,25.788333,267
4,60,-80.25,25.891667,205
4,61,-80.090833,26.230278,147
4,64,-80.211667,26.0175,595
```

FIG. 7

09755286.041901

09751286-011501

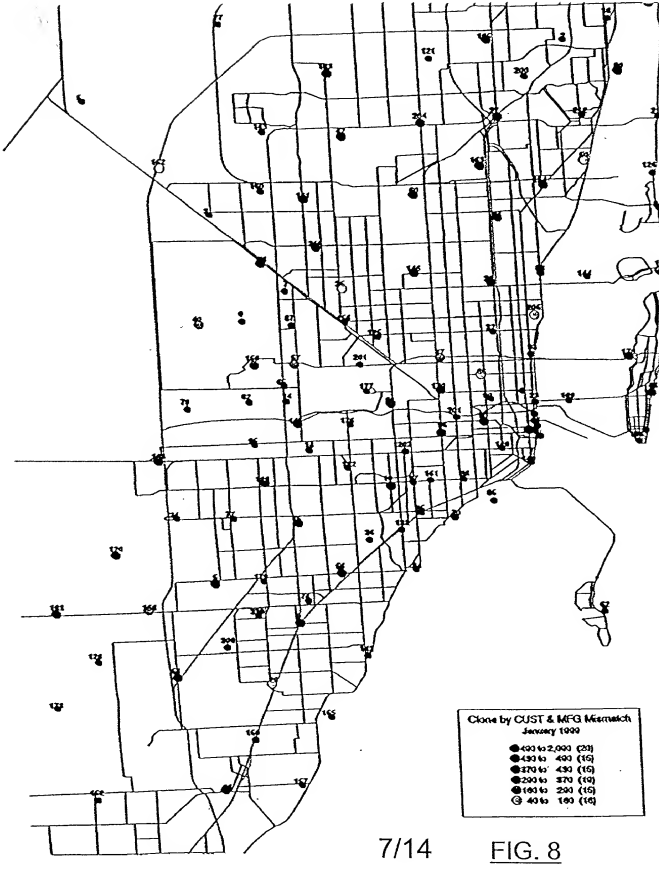

FIG. 8

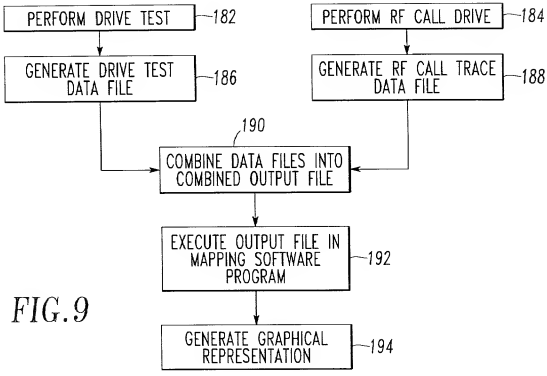

FIG.9

09751285-041901

FIG.11B

```
ER,RBER,FER,BQ,TD,FREQ,TIME,MS,PRINT
DEV,FVC,RVC,TDRVC,FVC,RVC,RVC,RVC,RVC,RVC,ERR,ALIG

28.0069725,9412580201,T017C,MDVC-
15,0,1,0,2,0
28.0069725,9412580201,T017C,MDVC-
15,0,1,0,2,0
28.0069856,9412580201,T017C,MDVC-
15,0,2,0,2,1
28.0069856,9412580201,T017C,MDVC-
15,0,2,0,2,1
28.0070392,9412580201,T005B,MDVC-
2,0,4,0,2,1
28.0072014,9412580201,T005B,MDVC-
7,0,4,0,2,1
28.0072014,9412580201,T005B,MDVC-
7,0,4,0,2,1
28.0073900,9412580201,T005B,MDVC-
8,0,3,0,2,1
28.0073900,9412580201,T005B,MDVC-
8,0,3,0,2,1
28.0075761,9412580201,T005B,MDVC-
7,0,5,0,2,1
28.0075761,9412580201,T005B,MDVC-
7,0,5,0,2,1
592,9412580102,T005B
```

MOBILE TELEPHONE CELL TRAFFIC RECORDING
DIGITAL SIGNAL STRENGTH MEASURMENTS

MSNB	CELL	DEV	SSFVC	SSRVC
9412580201	T017C	MDVC-1060	23	20

SSSTDRVC	BERFVC	BERRVC	RBERRVC	FERRVC
6	3	2	2	0

BQRVC	TDRVC	FREQERR	TIMEALIGN	MSPOW
6	3	1	0	2

NCELL	NSSFFMC	MEASCHAN	VIND
T017A	5	1260	Y
T017B	23	1272	Y
T006B	17	1300	Y
T016B	13	1305	Y
T004A	29	1251	Y
T005B	33	1302	Y
T005A	23	1290	Y
T018A	21	1294	Y
T154B	21	1303	Y

TIMW	PRINTIND	FCODE
11:08:27	0	

END

MOBILE TELEPHONE CELL TRAFFIC RECORDING CANDIDATE LIST FOR HANDOFF

MSNB	CELL	TIME	FCODE	URGENCY
9412580201	T017C	11:08:28		0

CANDCELL	CELLTYPE	NTYPE	RATING
T005B	0	STD	0

END

FIG.10

09/754,285 - 04/30/01

XTEL LOG FILE

DATE,TIME,LONGITUDE,LATITUDE,ALT,SPEED,HEADING,DPS_MODE,PHONE_TASK,TASK_DESC,CHAN,RSSI,MODTYPE,SLOT,CHANTYPE,SAT,DVCC,POWER,BER,BER_CODE,SBI,TA,CELL1.DISTANCE1,CELL2,DISTANCE2,CELL3,DISTANCE3,LOWER_CTOA,UPPER_CTOA,COCHA_RSSI,MARKER,CHAN_GRP,EVENT,EVINFO,BAND,LISTTYPE,LISTCT,CHAN1,RSSI1,CHAN2,RSSI2,CHAN3,RSSI3,CHAN4,RSSI4,CHAN5,RSSI5,CHAN6,RSSI6,CHAN7,RSSI7,CHAN8,RSSI8,CHAN9,RSSI9,CHAN10,RSSI10,CHAN11,RSSI11,CHAN12,RSSI12,CHAN13,RSSI13,CHAN14,RSSI14,CHAN15,RSSI15,CHAN16,RSSI16,CHAN17,RSSI17,CHAN18,RSSI18,CHAN19,RSSI19,CHAN20,RSSI20,CHAN21,RSSI21,CHAN22,RSSI22,CHAN23,RSSI23,CHAN24,RSSI24,CHAN25,RSSI25,REVISION
7/30/99,11:08:27,-
82.3321883,27.9813839,9,40.3,86.9,G8,5,Conversation,1218,-
93,D,3,V,3,5,2,0.87,3,0,0,,,,,,,14,15,-100,0,8,,,1,Neig,9,1284,-
89,1302,-93,1300,-103,1255,-107,1317,-109,1303,-109,1314,-111,1305,-
111,1315,-
113,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,4
7/30/99,10:52:47,-
82.3321883,27.9813839,9,40.3,86.9,G8,5,Conversation,1218,-
93,D,3,V,3,5,2,0.84,3,0,0,,,,,,,14,15,-100,0,8,,,1,Neig,9,1284-
89,1302,-93,1300,-103,1303,-107,1255,-109,1314,-111,1317,-111,1305,-
111,1315,-
113,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,4
7/30/99,10:52:48,-
82.33219553,27.9813947,10,43.1,,87.0,G8,5,Conversation,1218,-
93,D,3,V,3,5,2,0.84,3,0,0,,,,,,,-10,38,-137,0,8,,,1,Neig,9,1284-
89,1302,-93,1300,-103,1303,-107,1255,-109,1314,-111,1317,-111,1305,-
111,1315,-
113,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,4
7/30/99,10:52:48,-
82.3319553,27.9813947,10,43.1,87.0,G8,5,Conversation,1218,-
95,D,3,V,3,5,2,0.84,3,0,0,,,,,,,-10,38,-137,0,8,,,1,Neig,9,1284-
83,1302,-93,1300,-101,1303,-105,1255,-109,1305,-111,1314,-113,1315,-
113,1317,-
113,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,4
7/30/99,10:52:49,-
82.3317164,27.9814044,10,44.7,87.2,G8,5,Conversation,1218,-
95,D,3,V,3,5,2,0.99,3,0,0,,,,,,,-10,38,-137,0,8,,,1,Neig,9,1284-
83,1302,-93,1300,-101,1303,-105,1255,-109,1305,-111,1314,-113,1315,-
111,1317,-
113,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,4

FIG.11A

09751285.041501

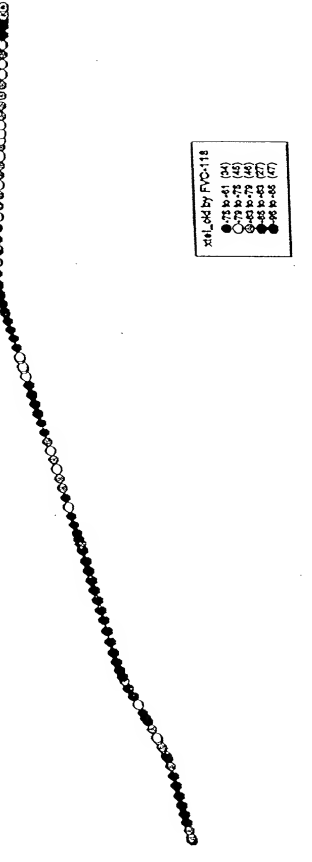

FIG.12

10174-0-882151-90

09/15/2005 10:10:04

```
COMARCO FILE
----------
13:20:00.8,26.677,-81.567
12:20:01.2,25.230,-81.456
.....
.....
.....
13.21.00.3,28.655,-81.2128
```

FIG.13A

```
Time,Long,Lat,CellNo,SS,
12:41:29,28,6559300,-18.205792000,1353,-124
12:41:29,28,6559300,-18.205792000,201,-106
12:41:29,28,6559300,-18.205792000,32,-106
12:41:29,28,6559300,-18.205792000,321,-76
12:41:29,28,6559300,-18.205792000,323,-66
12:41:29,28,6559300,-18.205792000,831,-100
12:41:30,28,6559260,-18.205580000,323,-66
12:41:31,28,6559170,-18.205380000,321,-75
12:41:31,28,6559170,-18.205380000,321,-75
12:41:31,28,6559170,-18.205380000,323,-64
12:41:32,28,6559080,-18.205198000,323,-63
12:41:33,28,6558950,-18.204922000,321,-73
12:41:33,28,6558950,-18.204922000,323,-62
12:41:34,28,6558900,-18.204769000,321,-73
12:41:34,28,6558900,-18.204769000,321,-73
12:41:34,28,6558900,-18.204769000,322,-98
12:41:34,28,6558900,-18.204769000,323,-61
12:41:35,28,6558900,-18.204577000,1353,-124
12:41:35,28,6558900,-18.204577000,201,-105
12:41:35,28,6558900,-18.204577000,202,-106
12:41:35,28,6558900,-18.204577000,32,-105
12:41:35,28,6558900,-18.204577000,323,-63
12:41:35,28,6558900,-18.204577000,831,-99
12:41:37,28,6558970,-18.204219000,321,-73
12:41:37,28,6558970,-18.204219000,323,-67
12:41:38,28,6559000,-18.204044000,321,-74
12:41:38,28,6559000,-18.204044000,323,-67
12:41:38,28,6559000,-18.204044000,321,-74
12:41:38,28,6559000,-18.204044000,323,-67
12:41:40,28,6559020,-18.203683000,1353,-122
12:41:40,28,6559020,-18.203683000,202,-104
12:41:40,28,6559020,-18.203683000,32,-105
12:41:40,28,6559020,-18.203683000,321,-73
12:41:40,28,6559020,-18.203683000,322,-96
12:41:40,28,6559020,-18.203683000,323,-67
12:41:41,28,6559070,-18.203457000,321,-72
12:41:41,28,6559070,-18.203457000,323,-66
12:41:42,28,6559100,-18.203125000,321,-71
12:41:42,28,6559100,-18.203125000,323,-66
```

FIG.13B

```
v- - - - - - - - - - - - - - - - Record #      1: - - - - - - - - - - - - - - - - v
05/10/99 13:22:05 ALM INF  4103  7 32          G        TC    457
                 Call Monitor: Call Record has been Written in RAM disk
                 Ph#:(407)9223002 Call clear by MS - mobile clear
v- - - - - - - - - - - - - - - - Record #      2: - - - - - - - - - - - - - - - - v
05/10/99 13:22:04 ALM INF  4113  7 32          G        TC    457
                 Call Monitor: Call RSSI value
                 (407)9223002 cell 323 rrssi -77 attn 4 snr 40
v- - - - - - - - - - - - - - - - Record #      3: - - - - - - - - - - - - - - - - v
05/10/99 13:22:04 ALM INF  4117  7 32          G        SRC
                 Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
                 (407)9223002 Cell_id RSSI:/323 / -73
v- - - - - - - - - - - - - - - - Record #      264: - - - - - - - - - - - - - - - v
05/10/99 13:21:00 ALM INF  4117  7 20          A        SRC
                 Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
                 (407)9223002 Cell_id RSSI:/201 / -98
v- - - - - - - - - - - - - - - - Record #      265: - - - - - - - - - - - - - - - v
05/10/99 13:21:00 ALM INF  4117  7 32          B        SRC
                 Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
                 (407)9223002 Cell_id RSSI:/322 / -103
v- - - - - - - - - - - - - - - - Record #      266: - - - - - - - - - - - - - - - v
05/10/99 13:21:00 ALM INF  4117  7 83          A        SRC
                 Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
                 (407)9223002 Cell_id RSSI:/861 / -96
v- - - - - - - - - - - - - - - - Record #      267: - - - - - - - - - - - - - - - v
05/10/99 13:21:00 ALM INF  4117  7 32          A        SRC
                 Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
                 (407)9223002 Cell_id RSSI:/321 / -78
v- - - - - - - - - - - - - - - - Record #      268: - - - - - - - - - - - - - - - v
05/10/99 13:21:00 ALM INF  4117  7 135         G        SRC
                 Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
                 (407)9223002 Cell_id RSSI:/1353 / -113
v- - - - - - - - - - - - - - - - Record #      269: - - - - - - - - - - - - - - - v
05/10/99 13:21:00 ALM INF  4117  7 20          B        SRC
                 Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
                 (407)9223002 Cell_id RSSI:/302 / -100
v- - - - - - - - - - - - - - - - Record #      270: - - - - - - - - - - - - - - - v
05/10/99 13:21:00 ALM INF  4113  7 32          G        TC    457
                 Call Monitor: Call RSSI value
                 (407)9223002 cell 323 rrssi -72 attn 4 snr 40
v- - - - - - - - - - - - - - - - Record #      271: - - - - - - - - - - - - - - - v
05/10/99 13:21:00 ALM INF  4117  7 32          G        SRC
                 Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
                 (407)9223002 Cell_id RSSI:/323 / -71
v- - - - - - - - - - - - - - - - Record #      272: - - - - - - - - - - - - - - - v
05/10/99 13:21:00 ALM INF  4117  7 3           B        SRC
                 Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
                 (407)9223002 Cell_id RSSI:/32 / -115
```

FIG.14

06th0'9225760

EP 1 061 480 A2

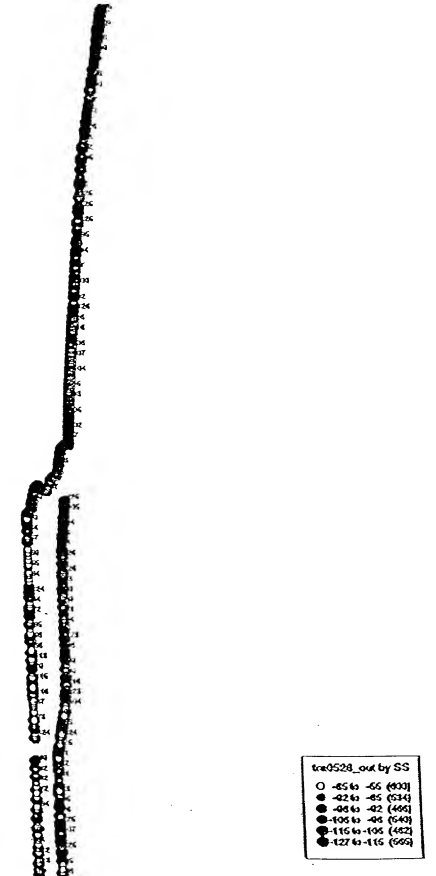

FIG.15